

In the Claims:

Please, amend claims 1 and 11, and add new claim 17 as follows:

1. (Currently amended) A magnetic memory disc medium comprising:

a substrate on which a groove and a land are concentrically formed;

a continuous magnetic film laminated on said substrate and at least partially filling said groove; and

a non-magnetic film deposited on said magnetic film and filling said groove to a position higher than the land of the substrate;

wherein a level difference between an upper surface of the magnetic film on the land and an upper surface of the non-magnetic film filling the groove is 5 nm or less.

2. (Previously presented) A magnetic memory disc medium according to claim 1, wherein said non-magnetic film on the groove is deposited up to a height substantially equal to said magnetic film on the land.

3. (Previously presented) A magnetic memory disc medium according to claim 1, wherein said non-magnetic film is formed of a material having a melting point which is lower than that of the material forming said magnetic film.

4. (Previously presented) A magnetic memory disc medium according to claim 3, wherein said non-magnetic film includes at least Te.

5-10. (Cancelled)

11. (Currently amended) A magnetic disc apparatus comprising:
a magnetic disc including a substrate on which a groove and a land are concentrically formed, a continuous magnetic film laminated on said substrate and at least partially filling said groove, and a non-magnetic film deposited up to a height higher than the land of said substrate on said magnetic film and filling said groove such that a level difference between an upper surface of the magnetic film on the land and an upper surface of the non-magnetic film filling the groove is 5 nm or less;
a spindle motor for rotating said magnetic disc;
a head for writing or reading data to or from said magnetic disc; and
an actuator for moving said head in a radius direction of said magnetic disc.

12. (Previously presented) A magnetic disc apparatus according to claim 11, wherein said non-magnetic film on the groove of said magnetic disc is deposited up to a height substantially equal to said magnetic film on the land.

13. (Previously presented) A magnetic memory disc medium comprising:

a substrate on which a groove and a land are formed;

a magnetic film laminated on said substrate; and

a non-magnetic film deposited on said magnetic film on said groove up to a position higher than the land of the substrate;

wherein said non-magnetic film includes at least Te.

14. (Previously presented) A magnetic memory disc medium according to claim 13, wherein said non-magnetic film on the groove is deposited up to a height substantially equal to said magnetic film on the land.

15. (Previously presented) A magnetic memory disc medium according to claim 13, wherein said non-magnetic film is formed of a material having a melting point which is lower than that of the material forming said magnetic film.

16. (Previously presented) A magnetic memory disc medium according to claim 13, wherein a level difference between an upper surface of the magnetic film on the land and an upper surface of the non-magnetic film filling the groove is 5 nm or less.

17. (New) A magnetic memory disc medium comprising:

a substrate on which a groove and a land are concentrically formed;

a magnetic film laminated on said substrate; and

a non-magnetic film deposited on said magnetic film and filling said groove to a position higher than the land of the substrate;

wherein a level difference between an upper surface of the magnetic film on the land and an upper surface of the non-magnetic film filling the groove is 5 nm or less, and

wherein said non-magnetic film includes at least Te and is formed of a material having a melting point which is lower than that of the material forming said magnetic film.